19991207.ba v02_n748.bam.991207

>From ???@??? Wed Dec 08 11:57:15 1999
Message-Id: <199912072105.dB7L5w614368@sco.theporch.com>
Date: Tue, 7 Dec 1999 15:05:10 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2748

BOATANCHORS Digest 2748

Topics covered in this issue include:

1) RE: More on cleaning
   by "Ed Sieb" <sieb@sympatico.ca>
2) Re: [MilSurplus] Amen, Brother! Say It Again!
   by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
3) Re: 3-wire connection of BA's
   by Arden Allen <gumbear@pacbell.net>
4) MAB CASE
   by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
5) Re: Radio Shack's fuses
   by "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
6) Re: Odd tube - correction
   by Bob Roehrig <broehrig@admin.aurora.edu>
7) Re: 3-wire connection of BA's
   by Henry van Cleef <vancleef@netcom.com>
8) RE: 6X5
   by John Shriver <jas@shiva.com>
9) re: Bleach, Whitewash & Phosgene Gas
   by Stanley A Mcintosh <mcintos@basf-corp.com>
10) woulda, coulda
   by brian.harris_2@philips.com
11) Re: 3-wire connection of BA's
   by "Prof. Arthur I. Larky" <ail0@lehigh.edu>
12) WTB bristol wrenches
   by "Prof. Arthur I. Larky" <ail0@lehigh.edu>
13) Whatza Intermarine EN-R2 receiver?
   by David Ross <ross@hypertools.com>
14) more old paper
   by brian.harris_2@philips.com
15) Ausralian gentlemen
   by Arden Allen <gumbear@pacbell.net>
16) FOR SALE
   by Allan Culbert <Allan-Culbert@uiowa.edu>
17) Just in Time for Christmas - New Downloadable ER Index
   by "Don Buska" <d.buska@aaiate.com>
18) Re: 3-wire connection of BA's

by "Scott Alfter" <salfter@delphi.com>
19) tubes
by Bob Roehrig <broehrig@admin.aurora.edu>
20) Re: Odd tube - correction
by "Robert P. Okas" <vintage@best.com>
21) Re: 6X5
by Arden Allen <gumbear@pacbell.net>
22) Re: 6X5
by "Eugene Rippen" <soundval@foothill.net>

From: "Ed Sieb" <sieb@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: More on cleaning
Date: Mon, 6 Dec 1999 23:23:16 -0500
Message-ID: <LOBBJHOLOOHLIPLONIAFMEACCDAA.sieb@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Arden and all,

On Monday, December 06, 1999 12:40 PM, Arden Allen wrote:

> One of my mouse encounters was in a rig I was operating in the
> garage where
> mouses and ratses(?) are occasional visitors due to bad garage door
> alignment and concrete warpage.

I have the exact same problem here, with my garage and garage door.

>...And get a good
> mouser for the shack and leave him/her/it in there at night. You
> will also
> enjoy having a warm lap while operating. Cheers!

I have two wonderful mousers, who _LOVE_ to go exploring in the garage.
These two orange guys have successfully kept the mouse and vole population
in the garage, under control for several years. Nevertheless, I shudder to
think
what treasures I'll find as I go through the boat anchors stored there.
(Inncluding
two broadcast transmitters.)

And yes, they're very familiar with my lap. It's a favorite spot, while I'm
a "captive
audience" when operating. Either that, or the lid of a well warmed BA rig!

Ed   VA3ES
>

Date: Tue, 7 Dec 1999 00:23:34 -0500
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: Re: [MilSurplus] Amen, Brother! Say It Again!
To: Old Tube Radios <boatanchors@theporch.com>
Cc: David Stinson <arc5@ix.netcom.com>,
   "MilSurplus@qth.net" <MilSurplus@qth.net>,
   Boatanchors <boatanchors@theporch.com>
Message-ID: <199912070023_MC2-9006-934F@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
      charset=ISO-8859-1
Content-Disposition: inline

Message text written by "John L."
>Modifiying old WW2 stuff was great fun in the days after the war, and many many a radio amateur cut his teeth and learned much about radios
<

I disagree. =

Robert Downs
WA5CAB
Houston

Date: Mon, 06 Dec 1999 21:36:40 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: 3-wire connection of BA's
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FMC00AY1VMY5W@mta1.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

Hi Morris;

> I have several 3-wire Dead Front Plugs branded Hubbell 5666VY which
> have two flat blades side by side in the horizontal plane with an
> inverted "U" shaped earth pin below. Are these the 'standard' 3-wire
> plugs used in the U.S.?
>

> In cables, which are the active and neutral as regards the black and
> white wires?

I'm not the best qualified to answer questions about National Electrical Manufacturers Association (NEMA) plug standards but here goes. The standard household 120 volt 15 amp plug has two blades that are vertically oriented, side by side with respect to the grounding prong being center bottom. Viewing the outlet for the plug the usual installed orientation is with the grounding receptacle at the bottom. The "hot" (line) narrower blade receptacle is right of center, the wider "cold" (neutral) receptacle is left. In the cord the black "hot" wire is equivalent to the IEC brown wire, in the US, 120 volts with respect to ground. The white "cold" (neutral) wire is equivalent to the IEC blue wire, return to the service entrance earth ground. The solid green safety ground (earth) wire is equivalent to the IEC green/yellow wire, redundant return to service entrance earth ground. There are other NEMA plug configurations for different voltage and current services that are distinguished by the orientation of the two blades with respect to each other. That's so you won't plug a 120 volt 20 amp device into a 120 volt 15 amp receptacle or a 120 volt device into 240 volts, etc. Violations of the standards are common in the US and local codes often contradict each other in esoteric areas but at least the 120 volt three wire cord standard has been stable since the 60's. The best practice for fusing a device is to feed the black wire first to the fuse. That way when the fuse opens the entire device is "cold". With your 240 volt service down under you have only one wire running back to earth ground with two hot wires if I'm right. I might suggest that you consider your step-down transformer as being hot on both sides, neither side being favored with respect to ground. That way you will not vary your regular regard for what's hot and what's not. The isolation transformer adds one more level of safety but you are also still free to use an auto transformer. Hope I got everything correct.

Arden Allen   KB6NAX   Vallejo, CA   gumbear@pacbell.net

+++ Politics is the mother of invention. +++

Date: Tue, 7 Dec 1999 08:55:57 -0500
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: MAB CASE
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199912070856_MC2-900C-DF0A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
      charset=ISO-8859-1
Content-Disposition: inline

Groups,

I have an empty MAB case complete with top cover and good cables (less
RS-38 mic). Anyone have a good chassis they'd like to part with, or
conversely a good radio with a bad case that they're trying to complete? =
 I
also have a second case and cover with no cables.

Robert Downs
WA5CAB
Houston

Date: Tue, 7 Dec 1999 08:56:00 -0500
From: "ROBERT W. DOWNS" <RWDowns_WA5CAB@compuserve.com>
Subject: Re: Radio Shack's fuses
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199912070856_MC2-900C-DF0E@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
      charset=ISO-8859-1
Content-Disposition: inline

Group,

Unless I missed it (not impossible), no one seems to have commented on fu=
se
voltage rating. When a fuse "blows", the element melts and then vaporize=
s.
 An arc is usually established in the metal vapor. The voltage rating is=

the voltage at which the arc is quaranteed to extinguish itself quickly. =

If the arc is sustained for any appreciable time, the fuse holder will be=

damaged or destroyed, etc. 32 volt automotive fuses should not be used i=
n
120 or 240 VAC circuits. =

73,
Robert Downs
WA5CAB
Houston

Date: Tue, 7 Dec 1999 08:03:18 -0600 (CST)

From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Odd tube - correction
Message-ID: <Pine.OSF.3.96.991207080217.12218B-100000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 6 Dec 1999, Robert P. Okas wrote:

> IIRC, a 6X5 is the so-called damper tube used in B&W and maybe some color
> tv's.

You're thinking of the 6AX5 I think. The 6X5 is a normal indirectly heated
cathode.

"Nostalgia is a thing of the past"
E-mail: broehrig@admin.aurora.edu or k9eui@arrl.net   73 de Bob, K9EUI
CIS: Data / Telecom   Aurora University, Aurora, IL
630-844-4898 Fax 630-844-4222

From: Henry van Cleef <vancleef@netcom.com>
Message-Id: <199912071501.HAA27297@netcom.com>
Subject: Re: 3-wire connection of BA's
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 7 Dec 1999 08:01:55 -0700 (MST)
Cc: boatanchors@theporch.com
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

As David Prince discourses
>
> G'day All,
>
> To overcome this in my display area, I have decided to run a separate
> 115 volt AC power circuit using a step-down isolating transformer (240
> to 115v) of suitable power rating.
>
> My questions are:-
>
> I have several 3-wire Dead Front Plugs branded Hubbell 5666VY which
> have two flat blades side by side in the horizontal plane with an
> inverted "U" shaped earth pin below. Are these the 'standard' 3-wire
> plugs used in the U.S.?
>
> In cables, which are the active and neutral as regards the black and

> white wires?
>

The plugs you describe sound like US 240 volt plugs. The standard 120 volt has two vertical blades when you hold it with the earth pin at the bottom.

The major US manufacturers of the hardware you need for installation are Leviton, Harvey Hubbell, and I don't know what has become of Arrow, Hart, and Hegemann (Arrow H&H trademark). There is a Leviton web site as I recall, and probably one for Hubbell as well, which may help. The correct hardware is rated at 120 volts 20 amps. The parts are usually called Nema 15R for the receptacles and Nema 15P for the plugs. The US National Electrical Code is supported by a practical "Handbook" published by the National Fire Protection Association, in Canton, Mass. The hardware you want will be called "specification grade," which is "best quality."

Coding of the cabling: White is neutral, black is hot, green is earth ground. On the connectors, the two blades are different widths, vertically. The wider blade is the neutral. The hardware is color coded: brass is hot, nickel is neutral, and the ground is colored green. The permanent wiring is done with #14 wiring for 15 Amps, #12 for 20 Amps., with a bare ground that is the same wire size inside the wiring sheath (usually Romex). US convention is that neutrals are all run back to the box (your transformer) separately from the ground (earth) wire, and connected together at the box. The box is connected to a suitable earth ground. The box I'm talking about here is the service distribution box, where the power company wiring mains are connected through circuit breakers to the branch circuit.

I think this about covers it.
--
===
Hank van Cleef
===

Date: Tue, 7 Dec 1999 10:24:05 -0500
Message-Id: <199912071524.KAA05369@brill.shiva.com>
From: John Shriver <jas@shiva.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: 6X5

But, the 6V filament rectifiers have to be designed for much higher filament to cathode ratings than the 5V ones, since they don't have a dedicated filament winding biased up to B+. So, that spiral insulator between the filament and cathode is of the same concept as the ones in TV damper rectifiers.

From: Stanley A Mcintosh <mcintos@basf-corp.com>
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <85256840.00595811.00@basf-corp-gw01.basf-corp.com>
Date: Tue, 7 Dec 1999 11:20:52 -0500
Subject: re: Bleach, Whitewash & Phosgene Gas
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>>Phosgene gas (tri-chloroacetic acid) was used with some effect during WW1.

Okay on reported smells, side effects, etc, but phosgene is not trichloroacetic acid (CCl3COOH). Phosgene is carbonyl chloride (COCl2), and, besides being toxic, is a very useful industrial chemical. Those of us that depend on polycarbonate resins to protect our eyes, faces, etc. can be very grateful for properly-handled phosgene. More lives have probably been saved by polycarbonate resins for safety gear than were taken when phosgene was misused for chemical warfare. In graduate school, I used to use 30% solutions of phosgene as molecular weight builders in dyestuff syntheses, but that's another story. For those of you that might use phosgene in a research effort, the trimer has a very low vapor pressure, and can be handled safely much more readily than the monomeric gas.

As for how trichloroacetic acid could be connected with phosgene, I don't know. I can almost imagine a hydroxide-initiated reaction where you start with HOCCl2COOH. The problem is that, to split of a proton and carbon dioxide, you'd be left with a hydride transfer. Chloroform, on the other hand, does metabolize to give phosgene as an intermediate in the body.

Boat anchorites can be glad about phosgene being used only for synthesis and not as a weapon. When phosgene hits water in the air, you get hydrogen chloride, which is less than kind to metals. If phosgene had been used in WW-II, our ARC-5's, BC-34x's, and other gear might have suffered even more corrosion than they already did.

73
stan
kd4bth

From: brian.harris_2@philips.com
To: Old Tube Radios <boatanchors@theporch.com>
Subject: woulda, coulda
Message-ID: <0056910002800176000002L162*@MHS>
Date: Tue, 7 Dec 1999 10:53:50 -0600
MIME-Version: 1.0

```
Content-Type: text/plain; charset=iso-8859-1; name="MEMO 12/07/99 10:55:37"
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline

While cleaning up around the house last night I stumbled on a catalog f=
rom Dubin Electronics Company.  As I was not wearing the drug store rea=
ding glasses my 52 year old eyes require, I thought it was something I =
received in the last few years, that is=20
until I opened it fully and saw the Lamda Electronics MM-2 Modulation M=
onitor advertised.  Donning my spectacles, I realized this catalog was =
actually named and numbered ' Xmas and New Years' Ham Bulletin #76 and =
has a mailing label addressed to one, T.=20
Roy Harterm W8PLF of Lorain, Ohio.  Seems as though this is early 50-is=
h.

Most interesting about the bulletin was that NIB 211's were four-for-a-=
buck.  Based on the prices today's audiophooles pay for 211's, this app=
ears to be an investment possibility most of us missed.  Kinda reminds =
me of the Qualcomm stock I sold a few=20
years back when it hit $35, as yesterday it went over $400!  But of cou=
rse you have to be careful with  investing....807's were but 98 cents b=
ack then and you can still buy at most hamfests for that (or less). =20

Oh yes, since I am cleaning up, if anyone wants this old catalog, you c=
an have it for nothing.  I'll even pay the darn postage.  Rules of Ware=
 apply.

73, Brian Harris WA5UEK=

------------------------------
Message-ID: <384CF54B.59D3@lehigh.edu>
Date: Tue, 07 Dec 1999 11:53:47 +0000
From: "Prof. Arthur I. Larky" <ail0@lehigh.edu>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 3-wire connection of BA's
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

David Prince wrote:
>
> G'day All,
>
> Here in Australia, the standard mains wiring in homes is 240 volt AC
> single phase. Whilst many U.S. made BA's have provision for dual
> voltage operation by means of series-parallel transformer primaries,
> many do not have such provision.
>
```

> To overcome this in my display area, I have decided to run a separate
> 115 volt AC power circuit using a step-down isolating transformer (240
> to 115v) of suitable power rating.
>
> My questions are:-
>
> I have several 3-wire Dead Front Plugs branded Hubbell 5666VY which
> have two flat blades side by side in the horizontal plane with an
> inverted "U" shaped earth pin below. Are these the 'standard' 3-wire
> plugs used in the U.S.?

Yes, although often the earth pin is solid and round.

>
> In cables, which are the active and neutral as regards the black and
> white wires?
>

Black is hot; white is neutral. In US the neutral is the center tap of
the 240 volt feed. The feed is split in the house to give 2 120volt
legs. Things like clothes dryers and water heaters run off of the 240
legs. Lights and such off of one leg to neutral. The neutral is
grounded at the fuse/breaker box. The third pin is a safety ground and
goes to everything metal such as the outlet boxes.
Art K3HBA

> Thanks and cheers,
> --
> Dave Prince VK4KDP
> Ipswich, Queensland, Australia
> davprin@gil.com.au
> http://www.home.gil.com.au/~davprin

Message-ID: <384CF878.297A@lehigh.edu>
Date: Tue, 07 Dec 1999 12:07:20 +0000
From: "Prof. Arthur I. Larky" <ail0@lehigh.edu>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: WTB bristol wrenches
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I need to remove some knobs from my R390A so I can change the blocking
capacitors in the IF. Can someone:
(a) tell me if they are available from some local chain store?
(b) identify for me which ones I need?
(c) (best yet) sell me some?
Thanks,
Art K3HBA

Message-Id: <3.0.6.32.19991207091021.007b8430@mail.willapabay.org>
Date: Tue, 07 Dec 1999 09:10:21 -0800
To: Old Tube Radios <boatanchors@theporch.com>
From: David Ross <ross@hypertools.com>
Subject: Whatza Intermarine EN-R2 receiver?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

BAfolks -

Anyone ever heard of an Intermarine EN-R2 receiver? Datecodes indicate early '80s manufacture, 10 KC-30 MC coverage, AM & CW & USB, has many many marine band presets. No markings as to manufacturer or model, other than the "Intermarine" and the "EN-R2". Label on the rear panel sez made in U.S.A.

Sorry to pester the group with a request for info on a squalid-state item, but I'm hoping someone here knows who made it or where I can get a manual on it.

73 & thanks for the read
Dave Ross   N7EPI   ross@hypertools.com

From: brian.harris_2@philips.com
To: Old Tube Radios <boatanchors@theporch.com>
Subject: more old paper
Message-ID: <0056910002801351000002L112*@MHS>
Date: Tue, 7 Dec 1999 11:34:18 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; name="MEMO 12/07/99 11:36:03"
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline

Anybody want the paper described below? If not, I will recycle it. Yo=
u pay postage...1st Class =3D $2.75.

FCC Rules and Regulations Volume VI - January 1964
includes:
Part 95 - Citizens Radio Service
Part 97 - Amateur Radio Service
Part 99 - Disaster Communication Service
and various transmittal sheets (substitute pages)
*All in excellent condition

Rules of Ware apply.

Brian Harris WA5UEK
Senior Field Application Engineer

Philips Semiconductors   =20
1755 N. Collins Blvd. Suite 201
Richardson, Texas 75080   =20

Phone 972-644-1610
Fax   972-480-9617
EMAIL brian.harris_2@philips.com
=

Date: Tue, 07 Dec 1999 10:06:54 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Ausralian gentlemen
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FMD00HNRUSLPI@mta1.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

I hope there are no ruffled feathers as a result of me mixing up Morris Odell with David Prince.

Arden Allen   KB6NAX   Vallejo, CA   gumbear@pacbell.net

+++ Politics is the mother of invention. +++

Message-Id: <3.0.1.32.19991207123213.006d799c@blue.weeg.uiowa.edu>
Date: Tue, 07 Dec 1999 12:32:13 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Allan Culbert <Allan-Culbert@uiowa.edu>
Subject: FOR SALE
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I am commencing on a long needed thinning of my "estate". The first items are:

1) A set of four (4) New In Box "Master Mobile" antenna coils for 75, 40, 20 and 15 meters. Original documentation in two of the boxes. $50 shipped in CONUS.

2) BC-348P Manufactured by Stromberg Carlson s/n 2672. Has the mating power connector plug and a NIB Rack Mount FT-154-W. The unit is cosmetically a 9 and internally is excellent. No manual. There are two modifications as

follows:

a) The dynamotor has been removed and an audio range filter (the old 'range' - 'voice' - 'both' style) has been installed with a shaft extension through the front panel with knob matching the other original knobs

b) Approximately 1/2" of stock has been cut off from the sides of the cabinet and two aluminum extrusions attached to facilitate mounting the radio in a standard 19" rack.

I can forward a jpg photo for anyone serious about this unit.

Asking $90 which will include boxing for shipment. Shipping at purchaser's expense.

3) Millen Model 90651 grid dip meter with coils in metal rack and original instruction manual. $75 shipped in CONUS.

Al, K0AL

From: "Don Buska" <d.buska@aaiate.com>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Don Buska" <d.buska@aaiate.com>
Date: Tue, 7 Dec 1999 10:34:02 -0800
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Subject: Just in Time for Christmas - New Downloadable ER Index
Message-Id: <18341302305024@il1.aaiate.com>

Seasons Greeting All,

Just in time for the holidays. I have a new updated version, through November 1999, of the downloadable ER Index available on my site. As always the on-line searchable ER Index continues to be updated monthly.

As a side note, I do continue to update the on-line searchable Collins Article Index as well. There are several kind individuals out there that are supplying me with more article information for those magazines I just don't have in my collection. So check it out periodically, eventually I hope it will become the most comprehensive Collins article index available on the web. I'm always here to accept additions and corrections to both indexes.

73

Don N9OO

```
*******************************************************************
**                                                               **
**  Don Buska N9OO (EN62bo)           Mgr - Parts & Repair Ctr   **
**  4805 64th Ave. Kenosha, WI 53144   Advantest America Inc.     **
**  (262)654-0072                      (847)821-3393              **
**  d.buska@aaiate.com             fax (847)634-2872              **
**                                                               **
**          ----------------  Wants ------------------           **
**   RCA     |  James Millen Equipment               |   CSVHFS  **
**   AWA     |  Transmitters by Thordarson, Stancor,  |   NTMS    **
**   AMI     |  UTC and other transformer companies.  |   ARRL-LM **
**   QCWA    |                                        |           **
**   JMS     |  Magazines: 73 Mag's from 1960/61      |           **
**                                                               **
**                  http://www.qsl.net/n9oo                      **
**  Home of the Electric Radio Magazine Index, Collins Magazine   **
**  Index and The James Millen Society Page                      **
*******************************************************************
```

Message-ID: <001b01bf40e6$7c157520$b107a8c0@rsiadmin>
From: "Scott Alfter" <salfter@delphi.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 3-wire connection of BA's
Date: Tue, 7 Dec 1999 11:08:21 -0800
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Arden Allen <gumbear@pacbell.net> wrote:

> There are other NEMA plug configurations for
> different voltage and current services that are distinguished by the
> orientation of the two blades with respect to each other.

Going partly from memory and partly from looking at what's around me (some special outlets in the server closet at work, an A/C outlet at home, etc.), here's what the different types look like, as you're looking into an outlet:

```
| |  120V 15A        - |  120V 20A
 o                    o

| -  240V 15A        - -  240V 20A
```

```
 o                    o
```

The 20A outlets are often set up so that they'll take 15A plugs, so the pin on the left has a "T" appearance. The pins are all the same size, differing only (as you noted) in their arrangement. IIRC, the pin on the left in 120V circuits is neutral.

Scott Alfter
salfter@delphi.com

Date: Tue, 7 Dec 1999 13:12:45 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: tubes
Message-ID: <Pine.OSF.3.96.991207131159.16501F-100000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

If you think you need Western Electric tubes, look at:

www.westernelectric.com/pricing/prices.html

"Nostalgia is a thing of the past"
E-mail: broehrig@admin.aurora.edu or k9eui@arrl.net   73 de Bob, K9EUI
CIS: Data / Telecom   Aurora University, Aurora, IL
630-844-4898 Fax 630-844-4222

Date: Tue, 7 Dec 1999 12:33:25 -0800 (PST)
From: "Robert P. Okas" <vintage@best.com>
To: Old Tube Radios <boatanchors@theporch.com>
cc: "Robert P. Okas" <vintage@best.com>,
   Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Odd tube - correction
Message-ID: <Pine.BSF.4.21.9912071231410.14221-100000@shell14.ba.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I stand corrected! It's been a long time since I've used the 6X5 and, of course, I got it confused.

73,
Bob - W3CD

On Tue, 7 Dec 1999, Bob Roehrig wrote:

> On Mon, 6 Dec 1999, Robert P. Okas wrote:
>
> > IIRC, a 6X5 is the so-called damper tube used in B&W and maybe some color tv's.
>
> You're thinking of the 6AX5 I think. The 6X5 is a normal indirectly heated cathode.
>
> "Nostalgia is a thing of the past"
> E-mail: broehrig@admin.aurora.edu or k9eui@arrl.net   73 de Bob, K9EUI
> CIS: Data / Telecom   Aurora University, Aurora, IL
> 630-844-4898 Fax 630-844-4222
>
>

Date: Tue, 07 Dec 1999 12:30:20 -0800
From: Arden Allen <gumbear@pacbell.net>
Subject: Re: 6X5
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0FME00IWK0ZC04@mta1.snfc21.pbi.net>
MIME-version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Content-transfer-encoding: 7bit

John sez:

> But, the 6V filament rectifiers have to be designed for much higher filament to cathode ratings than the 5V ones, since they don't have a dedicated filament winding biased up to B+. So, that spiral insulator between the filament and cathode is of the same concept as the ones in TV damper rectifiers.

Howeeeeevvvvvvveerrrrrrr, eyeball examinations will tell you that not all 6X4's and 6X5's have helical filaments. It's the thickness of the insulation on the filament that determines the maximum heater-cathode voltage, not the shape of the filament (another BA myth in the making quashed!). Methinks the reason for the helical filament is to form a tubular heater so there is an even proximity to the inside wall of the larger diameter cathode sleeve used in high perveance damper diodes. It also makes for more even filament temperature with a heavier wire (for durability) than the broom bristle contruction. Those my guesses.

Arden Allen   KB6NAX   Vallejo, CA   gumbear@pacbell.net

+++ Politics is the mother of invention. +++

Message-ID: <019c01bf40f6$369db1a0$c50c83cc@soundval.foothill.net>
From: "Eugene Rippen" <soundval@foothill.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: 6X5
Date: Tue, 7 Dec 1999 13:01:20 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>From my old radio repairing days, I developed the opinion that there was no
worse rectifier ever made than the 6X5. That is, according to failure
rates.

Gene

>John sez:
>
>> But, the 6V filament rectifiers have to be designed for much higher
>> filament to cathode ratings than the 5V ones, since they don't have a
>> dedicated filament winding biased up to B+. So, that spiral insulator
>> between the filament and cathode is of the same concept as the ones in
>> TV damper rectifiers.
>
>Howeeeeevvvvvvveerrrrrrr, eyeball examinations will tell you that not all
>6X4's and 6X5's have helical filaments. It's the thickness of the
>insulation on the filament that determines the maximum heater-cathode
>voltage, not the shape of the filament (another BA myth in the making
>quashed!). Methinks the reason for the helical filament is to form a
>tubular heater so there is an even proximity to the inside wall of the
>larger diameter cathode sleeve used in high perveance damper diodes. It
>also makes for more even filament temperature with a heavier wire (for
>durability) than the broom bristle contruction. Those my guesses.
>
>Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net
>
>+++ Politics is the mother of invention. +++
>
>

End of BOATANCHORS Digest 2748
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